

Customer No.: 31561
Docket No.: 13435-US-PA
Application No.: 10/710,267

AMENDMENT

To the Claims:

Claim 1 (currently amended) A method of fabricating a light guide plate, comprising the steps of:

providing a thin film having a transfer material layer thereon;

providing a molding machine having a cavity therein;

disposing the thin film inside the molding machine such that at least a portion of the transfer material layer is located within the cavity; and

forming a light guide plate body inside the cavity after the thin film is disposed inside the molding machine such that the transfer material layer is transferred on the light guide plate body from the thin film.

Claim 2 (original) The method of claim 1, wherein the transfer material layer comprises a light-scattering patterned layer.

Claim 3 (original) The method of claim 1, wherein a step of forming the transfer material layer over the thin film comprises:

forming a light-reflecting layer over the thin film; and

forming a light-scattering patterned layer over the light-reflecting layer.

Claim 4 (original) The method of claim 3, wherein the light guide plate body comprises a light output surface, a bottom surface, at least a light incident surface and a plurality of side surfaces, wherein the light incident surface and the side surfaces are adjacent to and positioned between the bottom surface and the light output surface, and the light-scattering patterned layer and the light-reflecting layer are transferred on the bottom surface.

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Claim 5 (original) The method of claim 4, wherein the light-reflecting layer is further transferred on the side surfaces.

Claim 6 (original) The method of claim 1, wherein the step of disposing the thin film inside the molding machine comprises applying a tape-spooling mechanism to reel the thin film over the molding machine so that at least a portion of the transfer material layer is disposed inside the cavity.

Claim 7 (original) The method of claim 6, wherein the transfer material layer comprises a plurality of patterned blocks so that at least one of the patterned blocks aligns with the cavity after reeling the thin film forward a fixed distance.

Claim 8 (previously presented) A light guide plate, comprising:

a light guide plate body having a light output surface, a bottom surface, at least a light incident surface and a plurality of side surfaces, wherein the light incident surface and the side surfaces are adjacent to and positioned between the bottom surface and the light output surface; and

a transfer material layer disposed on the bottom surface, wherein the transfer material layer comprises:

a light-scattering patterned layer disposed on the bottom surface; and

a light-reflecting layer disposed over the bottom surface and covering the light-scattering patterned layer, wherein the transfer material layer and the light guide plate body are formed into a unity, and there is substantially no gap between the transfer material layer and the light guide plate body.

Claim 9 (canceled).

Claim 10 (canceled).

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Claim 11 (canceled).

Claim 12 (previously presented) The light guide plate of claim 8, wherein the light-reflecting layer is further disposed on the side surfaces.